IN THE CLAIMS

Claims 4 and 6-10 have been amended as follows:

- 4 (Amended). A synthetic peptide according to any one of claim 1, selected from:
 - (i) peptides pep1, pep2, and pep3 of the sequences:

(pep1)

tle-Val-Leu

(pep2)

Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID

NO:1)

(pep3) Arg Met-Leu-Thr (SEQ ID NO:2)

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- (ii) peptides obtained from pep2 by deletion of one or more amino acid residues;
- (iii) peptides obtained by addition to peptides (i) or
 (ii) of one or more natural or non-natural amino acid
 residues;
- (iv) peptides obtained by replacement of one or more amino acid residues of peptides (i) to (iii) by the corresponding D-stereomer, by another natural amino acid residue or by a non-natural amino acid residue;
 - (v) chemical derivatives of the peptides (i) to (iv);
 - (vi) cyclic derivatives of peptides (i) to (v);
- (vii) dual peptides consisting of two of the same or different peptides (i) to (vi), wherein the peptides are covalently linked to one another directly or through a spacer; and
- (viii) multimers comprising a number of the same or different peptides (i) to (vi).
- 6 (Amended). A synthetic peptide according to claim 5, selected from:

Ile-Val-Leu (pep1) Asn-Ile-Asn-Val-Ile-Val-Leu (SEQ ID NO:3), (pep4) Ile-Val-Leu-Glu-Leu-Lys-Gly (SEQ ID NO:4), (pep5) Asn-Val-Ile-Val-Leu (SEQ ID NO:5) (pep6) Ala-Val-Leu (pep7) pep8) Ile-Ala-Leu Ile-Val-Ala (þep9) (pep10) Glu-Val-Leu (pep11, linear) and (pep12, cyclic) Cys-Ile-Val-Leu-Ala-Cys (SEQ ID NO:6) and,

(pep)3, linear) and (pep14, cyclic) Cys-Ile-Val-Leu-Ala-Ala-Cys (SEQ ID NO:7).

(Amended). The synthetic peptide Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID NO:1) (pep2), and derivatives thereof according to claim 4, obtained by:

- (a) elongation by up to 4 further amino acid residues at the C and/or N terminal ends, preferably according to the natural sequence of IL-2;
- (b) substitution of the Glu residue by a natural or non-natural charged or polar charged amino acid residue, preferably selected from Lys, Arg, Asp, Gln, Asn;
- (c) substitution of the Phe residue by a natural or non-natural hydrophobic aliphatic or aromatic amino acid residue, preferably selected from Ala, Val, Ile, Leu, Tyr, Trp, Phe, Met, Nle;
- (d) substitution of the Leu residue by a natural or non-natural hydrophobic aliphatic or aromatic amino acid

residue, preferably selected from Ala, Val, Ile, Leu, Tyr, Trp, Phe, Met, Nle;

- (e) substitution of the important Asn residue by a hydrophilic, non-charged, aliphatic natural or non-natural amino acid residue such as Gln;
- (f) substitution of the Arg residue by a positively charged, natural or non-natural amino acid residue, preferably selected from Lys, Orn, homoArg;
- (g) substitution of the Trp residue by a natural or non-natural hydrophobic, aliphatic or aromatic, amino acid residue, preferably selected from Tyr, Ile, Leu, Nle, Tic, Phe, 4-phenyl-Phe, 4-methyl-Phe;
- (h) substitution of the Ile residue by a natural or non-natural hydrophobic, aliphatic or aromatic, amino acid residue, preferably selected from Tyr, Phe, Leu, Nle, Tic;
 - (i) substitution of the Thr residue by an aliphatic hydrophobic amino acid residue such as Ala, Ile, Leu, or a hydroxy- or thio-containing amino acid residue preferably selected from Cys, Ser;
 - (j) truncation by up to $\sqrt{4}$ amino acid residues from either the C or N terminal;
 - (k) amidation of the C-temminal Thr;
 - (1) cyclization of pep2 or of any peptide of (a) to (k); and
 - (m) any combination of (a) to (1).
 - 8 (Amended). A peptide according to claim 7, selected from:

Q3 Cont

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Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID
           (pep2)
NO:1)
                     Ile-Val-Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr
           (pep15)
 (SEQ ID NO:8)
                     Gl\u-Phe-Leu-Asn-Arg-Trp-Ile-Thr-Phe-Cys
           (pep16)
 (SEQ ID NO:9)
                     Ala-Ahr-Ile-Val-Glu-Phe-Leu-Asn-Arg-Trp-
           (pep17)
Ile-Thr (SEQ ID NO:10)
           (pep18)
                     Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr-Phe-Cys-
Gln-Ser (SEQ ID NO:11)
           (pep19)
                     Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID NO:12)
                     Arg-Trp-Ile-Thr (SEQ ID NO:13)
           (pep20)
                     Glu-Phe-Led-Asn (SEQ ID NO:14)
           (pep21)
                    Ala-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID
           (pep22)
NO:15)
                    Lys-Phe-Leu-Ash-Arg-Trp-Ile-Thr (SEQ ID
           (pep23)
NO:16)
                    Glu-Ala-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID
           (pep24)
NO:17)
                    Glu-Val-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID
          (pep25)
NO:18)
                    Glu-Phe-Ala-Asn-Arg-Ttp-Ile-Thr (SEQ ID
          (pep26)
NO:19)
          (pep27)
                    Glu-Phe-Leu-Ala-Arg-Trp\file-Thr (SEQ ID
NO:20)
                    Glu-Phe-Leu-Asn-Ala-Trp-I1e-Thr (SEQ ID
          (pep28)
NO:21)
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(pep29) Glu-Phe-Leu-Asn-Glu-Trp-Ile-Thr (SEQ ID

NO:22)

(pep30) Glu-Phe-Leu-Asn-Arg-Ala-Ile-Thr (SEQ ID

NO:23)

(pep31) Glu-Phe-Leu-Asn-Arg-Trp-Ala-Thr (SEQ ID

No:24)

(pep32) Glu-Phe-Leu-Asn-Arg-Trp-Ile-Ala (SEQ ID

No:25)

(pep33) Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr-NH₂ (SEQ ID

NO:26) and,

(pep34, linear) and (pep35, cyclic) cys-Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr-Ala-Cys (SEQ ID NO:27).

- 9 (Amended). The synthetic peptide Arg-Met-Leu-Thr (SEQ ID NO:2) (pep3), and derivatives thereof according to claim 4, obtained by:
- (a) elongation by up to 4 further amino acid residues at the C and/or N terrminal end, preferably according to the natural sequence of IL-2;
- (b) substitution of the Arg residue by a natural or non-natural positively charged amino acid residue, preferably selected from Lys, Orn, homoArg, diaminobutyric acid;
- (c) substitution of the Met residue by a natural or non-natural hydrophobic, aliphatic or aromatic, amino acid residue, preferably selected from Phe, Tyr, Ile, Leu, Nle, Tic;
- (d) substitution of the Leu residue by a natural or non-natural hydrophobic, aliphatic or aromatic, amino acid residue, preferably selected from Phe, Tyr, Nle, Tic;

a3 Cont

- '(e) substitution of the Thr residue by an aliphatic hydrophobic amino acid residue such as Ala, Ile, Leu, or a hydroxy- or thio-containing amino acid residue such as Ser, Cys;
 - (f) amidation of the C-terminal Thr residue;
- (g) cyclization of pep3 or of any peptide of (a) to
 (f); and
 - (h) any combination of (a) to (g).
- 10 (Amended). A peptide according to claim 9, selected from:

(pep3) Arg-Met-Leu-Thr (SEQ ID NO:2)

(pep36) Ala-Met-Leu-Thr (SEQ ID NO:28)

(pep37) Arg-Ala-Leu-Thr (SEQ ID NO:29)

(pep38) Arg-Met-Ala-Thr (SEQ ID NO:30)

(pep39) Arg-Met-Leu-Ala (SEQ ID NO:31)

(pep40) Lys-Met-Leu-Thr (SEQ ID NO:32)

(pep41) Arg-Val-Leu-Thr (SEQ ID NO:33)

(pep42) Arg-Met-Leu-Thr-NH₂ (SEQ ID NO:34)

(pep43) Pro-Lys-Leu-Thr-Arg-Met-Leu-Thr (SEQ ID

NO:35)

(pep44) Arg-Met-Leu-Thr-Phe-Lys-Phe-Tyr (SEQ ID

NO:36) and,

(pep45, linear) and (pep46, cyclic) Cys-Arg-Met-Leu-Thr-Ala-Cys (SEQ ID NO:37).

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